



QY 1 EVQLQSGPVELVKPGASVMSCRTSAYTENTVHWKQSHGESLEWIGGINPYGGSF 60  
 :||||||| || :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 20 QVOLQSGAELARPAGASKVMSCKASGYTFRTYTMHWKQRPQGLWIGYINPSRGYTN 79  
 QY 61 SPKFKGKATLTVDKSSTAYMQLSLSITSEDAVYCARRAGAYY-FDWGQGTITVSSA 119  
 :||||||| ||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 80 NQKEFKOKATLTDKSSSTAYMQLSLSITSEDAVYCARRAGAYY-FDWGQGTITVSSA 139  
 :||||||| ||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 QY 120 KTPPSVYPLAPGCDDTGSSVTGCLVKYFPESVTVTNGSLSVVHFPALQSGL 179  
 :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 140 KITAPSVPYLAVCGDITGSSVTGCLVKYFPEVTILTWNSSGLSSGVHTFPAVLQSDL 199  
 :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 QY 180 YMSSSVTVSSTWSQTVCSVAIASSTVDKLKEPSGPISITNPCCPKCCKICRCP 239  
 :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 200 YTLSSSVTVSSTWSQTVCSVAIASSTVDKLKEPSGPISITNPCCPKCCKICRCP 253  
 QY 240 NLEGGSVVFPPNPKDVLMSLSPKTCVWVDVSEDDPDVQISWVNIVNEVHTAQTH 299  
 :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 254 NLGGSVVFIPPKTKDVLMSLSPKTCVWVDVSEDDPDVQISWVNIVNEVHTAQTH 313  
 QY 300 REDYNSTIRVSTLPTQHODMSGFCKVNNKDLSPERTISKIGLVRAPOVYILP 359  
 :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 374 PPEEMTKKQVTLQVTDMPEDIVYENNTKTEPVLDSDGSYFMSKLVR 433  
 QY 420 KTSKWEKTDFFSCNRHEGLKINYKKTSRSRGK 454  
 :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 434 EKKNVERNSYSCSVVHEGLHNHHTKSFRTPKG 468  
 RESULT 2  
 ; Sequence 7, Application US/08303569B  
 ; General Information:  
 ; Patent No. 5659205  
 ; APPLICANT: Adair, John R.  
 ; APPLICANT: Attwai, Dileet S.  
 ; APPLICANT: Entwistle, John S.  
 ; TITLE OF INVENTION: Humanised Antibodies  
 ; NUMBER OF SEQUENCES: 31  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5859205ris  
 ; STREET: One Liberty Place - 46th Floor  
 ; CITY: Philadelphia  
 ; STATE: PA  
 ; COUNTRY: USA  
 ; ZIP: 19103  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patientin Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/303,569B  
 ; FILING DATE: 07-SEP-1994  
 ; CLASSIFICATION:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Trujillo, Boreen Yatto  
 ; REGISTRATION NUMBER: 35,719  
 ; REFERENCE/DOCKET NUMBER: CARP-0032  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (215) 568-3100  
 ; TELEFAX: (215) 568-3439  
 ; INFORMATION FOR SEQ ID NO: 7:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 468 amino acids  
 ; TOPOLOGY: linear  
 ; TYPE: amino acid  
 ; MOLECULE TYPE: protein  
 ; DS-08-303-569B-7

Query Match 73.6%; Score 1830.5; DB 2; Length 468;  
 Best Local Similarity 76.0%; Pred. No. 2.8e-137; Matches 346; Conservative 41; Mismatches 61; Indels 7; Gaps 3;  
 QY 1 EVQLQSGPVELVKPGASVMSCRTSAYTENTVHWKQSHGESLEWIGGINPYGGSF 60  
 :||||||| || :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 20 QVOLQSGAELARPAGASKVMSCKASGYTFRTYTMHWKQRPQGLWIGYINPSRGYTN 79  
 QY 61 SPKFKGKATLTVDKSSTAYMQLSLSITSEDAVYCARRAGAYY-FDWGQGTITVSSA 119  
 :||||||| ||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 80 NQKEFKOKATLTDKSSSTAYMQLSLSITSEDAVYCARRAGAYY-FDWGQGTITVSSA 139  
 :||||||| ||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 QY 120 KTPPSVYPLAPGCDDTGSSVTGCLVKYFPESVTVTNGSLSVVHFPALQSGL 179  
 :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 140 KITAPSVPYLAVCGDITGSSVTGCLVKYFPEVTILTWNSSGLSSGVHTFPAVLQSDL 199  
 :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 QY 180 YMSSSVTVSSTWSQTVCSVAIASSTVDKLKEPSGPISITNPCCPKCCKICRCP 239  
 :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 200 YTLSSSVTVSSTWSQTVCSVAIASSTVDKLKEPSGPISITNPCCPKCCKICRCP 253  
 QY 240 NLEGGSVVFPPNPKDVLMSLSPKTCVWVDVSEDDPDVQISWVNIVNEVHTAQTH 299  
 :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 254 NLGGSVVFIPPKTKDVLMSLSPKTCVWVDVSEDDPDVQISWVNIVNEVHTAQTH 313  
 QY 300 REDYNSTIRVSTLPTQHODMSGFCKVNNKDLSPERTISKIGLVRAPOVYILP 359  
 :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 374 PPEEMTKKQVTLQVTDMPEDIVYENNTKTEPVLDSDGSYFMSKLVR 433  
 QY 420 KTSKWEKTDFFSCNRHEGLKINYKKTSRSRGK 454  
 :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
 Db 434 EKKNVERNSYSCSVVHEGLHNHHTKSFRTPKG 468  
 RESULT 3  
 ; Sequence 33, Application US/08353400  
 ; General Information:  
 ; Patent No. 5665357  
 ; APPLICANT:  
 ; TITLE OF INVENTION: PROTEINS  
 ; NUMBER OF SEQUENCES: 37  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patientin Release #1.0, Version #1.25 (EPO)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/353,400  
 ; FILING DATE:  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: GB 9324819.3  
 ; FILING DATE: 03-DEC-1993  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: GB 9411089.7  
 ; FILING DATE: 03-JUN-1994  
 ; INFORMATION FOR SEQ ID NO: 33:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 445 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-353-400-33

Query Match 64.1%; Score 1594.5; DB 1; Length 445;

Best Local Similarity 66.5%; Pred. No. 1.3e-118; Matches 304; Conservative 55; Mismatches 83; Indels 15; Gaps 6;

QY 1 EVQI-QSGPRLVKRGASWMSICRTSAYTENTVHWVKOSHGSLEWIGGINPYYGSIF 60  
Db 1 QVQDQPELVRGASQVOLSCASKASYFTGYWHWVKORPGOGLEWIGEVNSTGRSDY 60

QY 61 SPKRGKATLTVDKSSTAYMELSLTSDESAVYCAR-RAGAY--YFDYWSGTTLVVS 117  
Db 61 NEFKNKATLTVDKSSTAYMOLSSLTSDESAVYCARRAYGIDDAMDYWGOTSVIVS 120

QY 118 SAKTPPSVPLARGCGDGTGSSVTLGCIVKGYPESTVTWNSGSUSSVHPALQS 177  
Db 118 SAKTPPSVPLARGCGDGTGSSVTLGCIVKGYPESTVTWNSGSUSSVHPALQS 177

QY 121 SAKTPPSVPLARGSAQNTNSMVTGLCIVKGYPPEPVYTWNSSGSSVHTPAVLQS 180  
Db 121 SAKTPPSVPLARGSAQNTNSMVTGLCIVKGYPPEPVYTWNSSGSSVHTPAVLQS 180

QY 178 GLYMSSSTVPSSTWPSOTVTCVAHASSTTVDKKEPSGPISTINCPCKECHKCP 237  
Db 178 GLYMSSSTVPSSTWPSOTVTCVAHASSTTVDKKEPSGPISTINCPCKECHKCP 237

QY 181 DLYLTISSVTPSSTWPSOTVTCVAHASSTTVDKKEPSGPISTINCPCKECHKCP 231  
Db 181 DLYLTISSVTPSSTWPSOTVTCVAHASSTTVDKKEPSGPISTINCPCKECHKCP 231

QY 238 APNLEGGPSVTFPPNPKDVLTMISLTPKVTCVVDDVSEDDPDVOISWVNNEHTAQO 297  
Db 238 APNLEGGPSVTFPPNPKDVLTMISLTPKVTCVVDDVSEDDPDVOISWVNNEHTAQO 297

QY 289 PREBQFNSTFRSVESELPMIHQDWLNGKEFCKRVSAAFPAPIERTISKTKGRPAQVYT 348  
Db 289 PREBQFNSTFRSVESELPMIHQDWLNGKEFCKRVSAAFPAPIERTISKTKGRPAQVYT 348

QY 358 LPPPAEQLSRKDVSLTCLVGFNFGDISWEWTSGHTEENYKOTAPVLDSDGSFYIYKL 417  
Db 358 LPPPAEQLSRKDVSLTCLVGFNFGDISWEWTSGHTEENYKOTAPVLDSDGSFYIYKL 417

QY 349 IPPKEQMAKDKVSLCTCMTDFFEDITYEWQWNGQPAENYKTOPIMDTGSFYIYKL 408  
Db 349 IPPKEQMAKDKVSLCTCMTDFFEDITYEWQWNGQPAENYKTOPIMDTGSFYIYKL 408

QY 418 NMKUSKWEKUDSFSCNVRIHEGLKVKYLKTISRSPGK 454  
Db 418 NMKUSKWEKUDSFSCNVRIHEGLKVKYLKTISRSPGK 454

QY 409 NVQKSNWEAGNTFCCSVHLHEGLHNHHTEKSLSHSPGK 445  
Db 409 NVQKSNWEAGNTFCCSVHLHEGLHNHHTEKSLSHSPGK 445

## RESULT 4

US-08-313-400-36

; Sequence 36. Application US/08353400

;

Patent No. 5665357

;

GENERAL INFORMATION:

;

APPLICANT:

;

TITLE OF INVENTION: PROTEINS

;

NUMBER OF SEQUENCES: 37

;

COMPUTER READABLE FORM:

;

MEDIUM TYPE: Floppy disk

;

COMPUTER: IBM PC compatible

;

OPERATING SYSTEM: PC-DOS/MS-DOS

;

SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

;

CURRENT APPLICATION DATA:

;

APPLICATION NUMBER: US/08/353,400

;

FILING DATE:

;

CLASSIFICATION: 424

;

PRIOR APPLICATION DATA:

;

APPLICATION NUMBER: GB 9324819.3

;

FILING DATE: 03-DEC-1993

;

PRIOR APPLICATION DATA:

;

APPLICATION NUMBER: GB 9411089.7

;

FILING DATE: 03-JUN-1994

;

INFORMATION FOR SEQ ID NO: 36:

;

SEQUENCE CHARACTERISTICS:

;

LENGTH: 464 amino acids

;

TYPE: amino acid

;

STRANDEDNESS: single

;

TOPOLOGY: linear

;

MOLECULE TYPE: protein

;

US-08-353-400-36

;

SEQUENCE CHARACTERISTICS:

;

NAME: Lee, Wendy M.

;

REGISTRATION NUMBER: 40,378

;

REFERENCE/DOCKET NUMBER: P0709P2

;

TELECOMMUNICATION INFORMATION:

;

TELEPHONE: 650/225-1994

;

TELEFAX: 650/952-9881

;

ATTORNEY/AGENT INFORMATION:

;

NAME: Lee, Wendy M.

;

REGISTRATION NUMBER: 40,378

;

REFERENCE/DOCKET NUMBER: P0709P2

;

SEQUENCE CHARACTERISTICS:

;

NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

;

REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

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REFERENCE/DOCKET NUMBER: P0709P2

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SEQUENCE CHARACTERISTICS:

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NAME: Lee, Wendy M.

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REGISTRATION NUMBER: 40,378

;

REFERENCE/DOCKET NUMBER: P0709P2

;

SEQUENCE CHARACTERISTICS:

;

NAME: Lee, Wendy M.

;

REGISTRATION NUMBER: 40,378

;

REFERENCE/DOCKET NUMBER: P0709P2

;

SEQUENCE CHARACTERISTICS:

;

NAME: Lee, Wendy M.

;

REGISTRATION NUMBER: 40,378

;

REFERENCE/DOCKET NUMBER: P0709P2

;

SEQUENCE CHARACTERISTICS:

;

NAME: Lee, Wendy M.

;

REGISTRATION NUMBER: 40,378

;

REFERENCE/DOCKET NUMBER: P0709P2

;

SEQUENCE CHARACTERISTICS:

;

NAME: Lee, Wendy M.

;

REGISTRATION NUMBER: 40,378

;

REFERENCE/DOCKET NUMBER: P0709P2

;

SEQUENCE CHARACTERISTICS:

;

NAME: Lee, Wendy M.

;

REGISTRATION NUMBER: 40,378

;

REFERENCE/DOCKET NUMBER: P0709P2

;

SEQUENCE CHARACTERISTICS:

;

NAME: Lee, Wendy M.&lt;/div

LENGTH: 454 amino acids  
 TYPE: Amino Acid  
 TOPOLOGY: Linear  
 US-07-934-373C-22

Query Match 62.2%; Score 1548; DB 2; Length 454;  
 Best Local Similarity 63.8%; Pred. No. 6.5e-115; Indels 14; Gaps 4;  
 Matches 294; Conservative 59; Mismatches 94;

QY 1 EVQLQOQSGPELVKPGASVMSCRTSAYTFTENTVHWKOSHGESELEWIGGINPYGGSF 60  
 :||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 1 OVLQDQSGPELVKPGASVMSCRTSAYTFTENTVHWKOSHGESELEWIGGINPYGGSF 60

QY 61 SPKEKCATLTVDKSSTAYMELRSLTSEDSEAVYCARRAG----AYYFDYWGQGTL 114  
 :||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 61 NQRFMDKATLAVDKSSTAYMELRSLTSEDSEAVYCARWGLNYGFDVRYFDWAGTTV 120

QY 115 TVSSAKTTPPSVYPLAPGCCDTGSSVTLCVKGYPESWTWNSGSLSSSHTPEAL 174  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 121 TVSSASTKGPSVFLPAPSSKSSTSGUJALCLVKDYFPEPVTVNSNGALTSGVHFPAV 180

QY 175 LQ-SGLYTMSSTVWPSSTWPSQTCSVAHPASSITVDKLEPSPGPISTINPCPCKEC 233  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 181 LQSSGLYSLSSVWTPVPSSSLGQTQYICNVNWKPSNPKVDKRKEPKSCDKT-HTCPR--- 235

QY 234 HKCPAPNLLEGGSVTFPPNPKDVMISLTPRKVTCVWVVDSEDDPDVQISWVNNEVHT 293  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 236 -CPAPELLGGPSVLFPPKDTLMISRPEVTCVWVVDSEDDPDVQISWVNNEVHT 293

QY 294 AQTOQHREDYNTIRVSTIPLQHDWMSSGKFKCKVNNKDLPSPIERISKIKGLVRAP 353  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 294 AKTKPREEQNSTYRVSVLTVLHQDWLNGKEYKCKVSKNPKVDPKCDT-HTCPR--- 353

QY 354 QVYILPPAEGLSRKDSVLSLTCVKGYPESWTWNSGSLSSSHTPEAL 413  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 354 QVYILPPSREEMTKNOVSLTICLVKGYPESWTWNSGSLSSSHTPEAL 413

QY 414 YSKLNKMTSKWEKTDSFSCNRHSGLKNYKKTTSRSPK 454  
 ||||| ; |::: ||||| ||||| ||||| ||||| ||||| |||||  
 Db 414 YSKLTVDKSRWQGNVFCSCVMHEALHNHYTOKSISLSPGK 454

---

RESULT 6  
 US-08-437-642B-22

; Sequence 22, Application US/08437-642B  
 ; Patent No. 654297

GENERAL INFORMATION:

APPLICANT: Paul J. Carter  
 TITLE OF INVENTION: Immunoglobulin Variants  
 NUMBER OF SEQUENCES: 47

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.  
 STREET: 1 DNA Way  
 CITY: South San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94080

COMPUTER READABLE FORM:  
 COMPUTER TYPE: 3.5 inch, 1.44 Mb floppy disk  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: WinPatin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08-437,642B  
 FILING DATE: 09-May-1995  
 CLASSIFICATION: 530  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 07/934373  
 FILING DATE: 21-AUG-1992  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/146206  
 ZIP: 94080

---

RESULT 7  
 PCT-US93-07832-22

; Sequence 22, Application PC/TUS9307832

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.  
 TITLE OF INVENTION: Immunoglobulin Variants  
 NUMBER OF SEQUENCES: 40

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.  
 STREET: 460 Point San Bruno Blvd  
 CITY: South San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94080

FILING DATE: 17-NOV-1993  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US92/05126

FILING DATE: 15-JUN-1992  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: 07/715272

FILING DATE: 14-JUN-1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Lee, Wendy M.  
 REGISTRATION NUMBER: 40,378  
 REFERENCE/DOCKET NUMBER: P0709P2C1

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 650/952-9881  
 INFORMATION FOR SEQ ID NO: 22:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 454 amino acids  
 TOPOLOGY: Linear  
 US-08-437-642B-22

Query Match 62.2%; Score 1548; DB 3; Length 454;  
 Best Local Similarity 63.8%; Pred. No. 6.5e-115; Indels 14; Gaps 4;  
 Matches 294; Conservative 59; Mismatches 94;

QY 1 EVQLQOQSGPELVKPGASVMSCRTSAYTFTENTVHWKOSHGESELEWIGGINPYGGSF 60  
 :||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 1 OVLQDQSGPELVKPGASVMSCRTSAYTFTENTVHWKOSHGESELEWIGGINPYGGSF 60

QY 61 SPKEKCATLTVDKSSTAYMELRSLTSEDSEAVYCARRAG----AYYFDYWGQGTL 114  
 :||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 61 NQRFMDKATLAVDKSSTAYMELRSLTSEDSEAVYCARWGLNYGFDVRYFDWAGTTV 120

QY 115 TVSSAKTTPPSVYPLAPGCCDTGSSVTLCVKGYPESWTWNSGSLSSSHTPEAL 174  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 121 TVSSASTKGPSVFLPAPSSKSSTSGUJALCLVKDYFPEPVTVNSNGALTSGVHFPAV 180

QY 175 LQ-SGLYTMSSTVWPSSTWPSQTCSVAHPASSITVDKLEPSPGPISTINPCPCKEC 233  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 181 LQSSGLYSLSSVWTPVPSSSLGQTQYICNVNWKPSNPKVDKRKEPKSCDKT-HTCPR--- 235

QY 234 HKCPAPNLLEGGSVTFPPNPKDVMISLTPRKVTCVWVVDSEDDPDVQISWVNNEVHT 293  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 236 -CPAPELLGGPSVLFPPKDTLMISRPEVTCVWVVDSEDDPDVQISWVNNEVHT 293

QY 294 AQTOQHREDYNTIRVSTIPLQHDWMSSGKFKCKVNNKDLPSPIERISKIKGLVRAP 353  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 294 AKTKPREEQNSTYRVSVLTVLHQDWLNGKEYKCKVSKNPKVDPKCDT-HTCPR--- 353

QY 354 QVYILPPAEGLSRKDSVLSLTCVKGYPESWTWNSGSLSSSHTPEAL 413  
 ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 354 QVYILPPSREEMTKNOVSLTICLVKGYPESWTWNSGSLSSSHTPEAL 413

QY 414 YSKLNKMTSKWEKTDSFSCNRHSGLKNYKKTTSRSPK 454  
 ||||| ; |::: ||||| ||||| ||||| ||||| |||||  
 Db 414 YSKLTVDKSRWQGNVFCSCVMHEALHNHYTOKSISLSPGK 454

COMPUTER READABLE FORM:  
 MEDIUM TYPE: 5 1/4 inch, 360 kb floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: patin (Genentech)  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US93/07832  
 FILING DATE: 19930820  
 CLASSIFICATION:  
 PRIORITY APPLICATION DATA:  
 FILING DATE: 14-JUN-1991  
 APPLICATION NUMBER: PCT/US92/05126  
 FILING DATE: 15-JUN-1992  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: 07/334373  
 FILING DATE: 21-AUG-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME:  
 REGISTRATION NUMBER:  
 REFERENCE/DOCKET NUMBER: 709P2PCT  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415/952-9881  
 TELEX: 910/371-7168  
 INFORMATION FOR SEQ ID NO: 22:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 454 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 PCT-US93-07832-22

Query Match 62.2%; Score 1548; DB 5; Length 454;  
 Best local similarity 63.8%; Pred. No. 5e-15;  
 Matches 294; Conservative 59; Mismatches 94; Indels 14; Gaps 4;

QY 1 EVOLQQSPELYPKPGASMISCRISATYTENTVHVKQSHGSELEMGGINPYGSIF 60  
 Db 1 QVOLQSQSPVELVKPGASVCKSCKTSGYTFTEYTMHWKQSHGSKLEWIGFPNPKNGSSH 60

QY 61 SPFKGKATLTDKSSSTAYMELRSLSEDSAVYCARRAG-----AYYFDWGOGLT 114  
 Db 61 NQRFMDKATLAVDKSTSAYMELRSLSEDSGYCARWGRGLNYGFDVRYFWGAGTV 120

QY 115 TWSSAKTTPPSVYPLAPGCGDTGSSVNLGCLVKGYPESVTWNGSLSSVHTPAL 174  
 Db 121 TWSAASKGPSPVPLAPGCGDTGSSVNLGCLVKGYPESVTWNGSLSSVHTPAL 180

QY 175 IQ-SGLYIMSSVYVPSTWPSTQVTTSVAHAPASSTVWKLEPPSGPISTINPCPKEC 233  
 Db 181 LQSSGGLSLSVVTPSSLGQTOTYICAVNHKPNTKVDKKYERPKSDKT-HTCPP---- 235

QY 234 HKCPAPNLEGPSVIFPPNIKDWLMISLTPKVTCVVWDSEDDPDVQISWVNNEVT 293  
 Db 236 -CPAPELIGGSPVLFPPKPKDTLMSRTPEVTCVVWDSEDDPDVQISWVNNEVT 293

QY 294 AQTQTHRDENSPTRVSTLPTLOHDWNGSKERCKVNNKDLPSPBERTISIKGLYRAP 353  
 Db 294 AKTKPREQYNSIYRVSVLTVLHQDWINGKECKVSKNKAQAPIERTISKAKGOREP 353

QY 354 QVYTLPPAEQSLRKDVSILCIVGFGNPGLDISVETWSNGTENYKOTAPVLDGSYFI 413  
 Db 354 QVYTLPPSREEMTKNQVSLTLCVGFYPSDIAVEWESENQOPENNYKTPPVLDGSRF 413

QY 414 YSKLNMKTSKWEKTDSESCNVRHGLKMYLKTIISRGPK 454  
 Db 414 YSKLTVDSRWRQOGNVFCSVMHEALHNHYTOKSLSPGK 454

RESULT 8  
 US-08-458-516-13

; Sequence 13, Application US/08458516  
 ; Patent No. 5777085  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Co., Man Sung  
 ; APPLICANT: Tso, J. Yun  
 ; TITLE OF INVENTION: Humanized Antibodies Reactive with  
 ; NUMBER OF SEQUENCES: 23  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: William M. Smith  
 ; STREET: One Market Plaza, Steuart Tower, Suite 2000  
 ; CITY: San Francisco  
 ; STATE: California  
 ; ZIP: 94105  
 ; COUNTRY: USA

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/458,516  
 FILING DATE:  
 CLASSIFICATION: 424  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: US 08/059,159  
 FILING DATE: 03-MAY-1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Smith, William M.  
 REGISTRATION NUMBER: 30,223  
 REFERENCE/DOCKET NUMBER: 11823-37-3  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-326-2400  
 TELEFAX: 415-326-2422  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 449 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-458-516-13

Query Match 59.0%; Score 1466.5; DB 1; Length 449;  
 Best Local Similarity 60.7%; Pred. No. 1.8e-108;  
 Matches 277; Conservative 69; Mismatches 101; Indels 9; Gaps 4;

QY 1 EVOLQQSPELYPKPGASMISCRISATYTENTVHVKQSHGSELEMGGINPYGSIF 60  
 Db 1 QVOLQSQSPVELVKPGASVCKSCKTSGYTFTEYTMHWKQSHGSKLEWIGFPNPKNGSSH 60

QY 61 SPFKGKATLTDKSSSTAYMELRSLSEDSAVYCARRAG-YDWGQEMTIVTSSA 119  
 Db 61 NEKFGRVMTLVDESTNTAMELSSLRSDTAVYFCARRDGNGWFAWQGQLTIVTSSA 120

QY 120 KTPPSVYPLAPGCGDTGSSVNLGCLVKGYPESVTWNGSLSSVHTPAL- SG 178  
 Db 121 STKGPSVPLAPGCGDTGSSVNLGCLVKGYPESVTWNGSLSSVHTPAL- SG 180

QY 179 LYTMSSVYVPSSWTWPSOTVTCVAHPASSTVWKLEPPSGPISTINPCPKECHCPA 238  
 Db 181 LYSLSSVYVTPSSLGQTOTYICAVNHKPNTKVDKKYERPKSDKT-HTCPP---- CPA 233

QY 239 PNIEGGPSVTFEPNIKDWLMISLTPKVTCVVWDSEDDPDVQISWVNNEVTQOT 298  
 Db 234 PELLGGPSVFLFPKPKDTLMSRTPEVTCVVWDSEDDPDVQISWVNNEVTQOT 298

QY 299 HREDYNSTTRVSTLPTLOHDWNGSKERCKVNNKDLPSPBERTISIKGLYRAP 358  
 Db 294 REBQYNSIYRVSVLTVLHQDWINGKECKVSKNKAQAPIERTISKAKGOREP 353

QY 359 PPPPAEQLSRKDVSILCIVGFGNPGLDISVETWSNGTENYKOTAPVLDGSYFI 418

RESULT 9  
US-09-049-672A-8  
; Sequence 8 Application US/09049672A  
; Patent No. 6135941  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Lal, Preeti  
APPLICANT: Tang, Y. Tom  
APPLICANT: Yue, Henry  
APPLICANT: Au-Young, Janice  
APPLICANT: Corley, Neil C.  
APPLICANT: Baugh, Mariah R.  
TITLE OF INVENTION: HUMAN IMMUNE SYSTEM ASSOCIATED PROTEINS  
NUMBER OF SEQUENCES: 28  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: PALO ALTO  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEE for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/049,672A  
FILING DATE: HEREMITH  
CLASSIFICATION: 536  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Cerone, Michael C  
REGISTRATION NUMBER: 39,132  
REFERENCE/DOCKET NUMBER: PR-0497 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-845-4166  
TELEX:  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 467 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPROLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: LUNGUTU11  
CLONE: 2747531  
; US-09-049-672A-8

RESULT 10  
US-07-916-098A-45  
; Sequence 45 Application US/07916098A  
; Patent No. 5871732  
GENERAL INFORMATION:  
APPLICANT: BURKLY, LINDA C.  
APPLICANT: CHISHOLM, PATRICIA L.  
APPLICANT: THOMAS, DAVID W.  
APPLICANT: ROSA, MARGARET D.  
APPLICANT: ROSA, JOSEPH J.  
TITLE OF INVENTION: ANTI-CD4 ANTIBODY HOMOLOGS USEFUL IN  
NUMBER OF INVENTION: PROPHYLAXIS AND TREATMENT OF AIDS, ARC AND HIV INFECTION  
NUMBER OF SEQUENCES: 61  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: ALLEGRETTI & MITCOFF, LTD.  
STREET: 10 SOUTH WACKER DRIVE  
CITY: CHICAGO  
STATE: ILLINOIS  
COUNTRY: U.S.A.  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/916,098A  
FILING DATE: July 24, 1992  
CLASSIFICATION: 424  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: PCT/US91/00843  
FILING DATE: NO. 5871/32ember 27, 1991  
CLASSIFICATION: 424  
APPLICATION NUMBER: 07/618,542  
FILING DATE: NO. 5871/32ember 27, 1990  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: JOHN J. MC DONNELL  
REGISTRATION NUMBER: 26,949  
REFERENCE/DOCKET NUMBER: 92,310-G  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312) 715-1000  
TELEFAX: (312) 715-1234  
TELEX: 910/221-5317  
INFORMATION FOR SEQ ID NO: 45:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 467 amino acids

QY 121 TTPPSVPLACGCGDTGSSVTLGCLVKGVFPESVTVWNSGLSSVHPPALIQ-SGL 179  
QY 419 MKTSKWEKTDSFSCNVRHEGKLYKTKTTSRSPGK 454  
Db 414 VDKSRWQOGNMFSCSYVHEALTHNHYTOKSLSLSPGK 449  
RESULT 9  
Db 354 PPSRDELTKNQVSLSLTCVKGFPSPDIAVEWNSQ-PENNYKTPPVLDSDGSFFLYSKLT 413  
QY 419 MKTSKWEKTDSFSCNVRHEGKLYKTKTTSRSPGK 454  
Db 140 TKGPSVPLAPASSKSSTSGGTATLGCLVKDYPPEPYVWSWNGALTSGVHPTPAVLOSSGL 199  
QY 180 YMSSSVTPRSTWPSPQTVTOSVAHPASSTVVDKKEPSGPDISTINCPCCKECICRCAP 239  
Db 200 YSLSSVWTPSSSLGQTYICNNVNHKPSPNTKVKVKEPKSCDKI-HTCPP----CPAP 252  
QY 240 NLEGGPSVFIPPNIKDVMLSLTPRVTCVVDVSEDDPVOISWVNNEVHTAQOTH 299  
Db 253 ELLGGPSVFLPPKPKDLMISRTPVTCVWDVSHEDPEKFNMYVGVEVHNMTKPR 312  
QY 300 REDYNSTIRVSTLPIQHQDMMSGKEPKCKVNNKDLPSPERTISKIGLVRAPOVILP 359  
Db 313 EROYNSTYRVSVVLTVLHQDWLNGKEYKCKVNSKALPAPTEKTIKAKGSPREPQYTLP 372  
QY 360 PPAEQLSRKDVSLTCLVGFNPQDLSVETWSNGHTEENYKTDAPVLDSDGSFYISKLM 419  
Db 373 PSREEMTKNQVSLSLTCVKGFPSPDIAVEWNSQ-PENNYKTPPVLDSDGSFFLYSKLT 432  
QY 420 KTSKWEKTDSFSCNVRHEGKLYKTKTTSRSPGK 454  
Db 433 DKSRWQOGNVSCLSCSYVHEALTHNHYTOKSLSLSPGK 467

TYPE: amino acid  
TOPOLGY: linear  
MOLECULE TYPE: protein  
US-07-916-098A-45

Query Match 57.9%; Score 1439; DB 2; Length 467;  
Best Local Similarity 59.8%; Pred. No. 2.9e-106; Mismatches 69; Indels 18; Gaps 6;  
Matches 275; Conservative 69; Mismatches 98; Indels 18; Gaps 6;  
Db 20 QVQLQESGAEVKKRGASVYKVKSCASKAGTFTSTVWVHWRQAPGGLEWIGYINPYNGTDY 79

QY 1 EVQLQSQSPELVEKGASVYKISCRISRTSAYTFTENTVHWVKQSHGESELINGGINPYGGSF 60  
|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
Db 61 SPFKGKATLTVKSSAYMEIERSLSEDSAVYCARAGAY---YFDYWGQGTLVY 116  
|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
Db 80 DEKEFGKATVTULDESTNTAYMELSLRSEDTAVYCAREKDNTATGAWFAVYNGQTLVY 139

QY 117 SSAKTTPSVYPLAPGCDGTGSSTVGLCKVGFPESVTVWNSGSLSSVHTFPALQ 176  
|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
Db 140 SSASTKGSSVFPLAPCSNTSESTAAALGCLVKDPEPFTVWSNQSGALTSGVHTFPALQ 199

QY 177 -SGLYTMSVVTPFSTWESQTVCSVAHVASSTTWRKLEPS-GRPISTINCPCKECH 234  
|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
Db 200 SSGLYLSSVVTPFSSGLGKTYCPTVNVHKPSNKTQDKRVESKYGP----PCP---- 248

QY 235 KOPAPNLEGGPSVTFPPNIKVLISLTPKTVVWVVDSEDDPVQJISWFWNNVEHTA 294  
|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
Db 249 SCPAPERFLGGPSVTFPPPKPDLMISRTPETVCCVVDVSQEDPEOFNWYDGVEVHN 308

QY 295 QPOTHREDYNSTIRVWSLPIQHQDWMSKEFKCKVNNKDLSPERTISKIGLVRAPO 354  
|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
Db 309 KURPREFQDSNTSYRVSVSLTVLHQDWNGKEYKCKVSNKLOSSIETKISK-OPREQ 367

QY 355 VVILPPPAEQLSRDRSLLTCLVUVGFNPQDISVWTSGTNGHTEENYKDTAPVLDSDGSFY 414  
|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
Db 368 VVILPPSOEEMTKNQVSLLTCLVKGFFYSDIAWENESQOPENNYKTPVLDSDGSFLY 427

QY 415 SKMKMTSKWEKTSDFSCNRHEGLKNYLUKKTTSRSRPGK 454  
|||:|||:|||:|||:|||:|||:|||:|||:  
Db 428 SRUUVDKSRWQEGNVFSCVMHEALHNHYTOKSLSLSGK 467

RESULT 11  
US-08-378-939-10  
; Sequence 10, Application US/08378939  
; Patent No. 5875961  
; GENERAL INFORMATION:  
; APPLICANT: CROWE, JAMES SCOTT  
; APPLICANT: LEWIS, ALAN PETER  
; TITLE OF INVENTION: PRODUCTION OF ANTIBODIES  
; NUMBER OF SEQUENCES: 46  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ROTHEWELL, FIGG, ERNST & KURZ  
; STREET: 555 THIRTEENTH ST. N.W.  
; CITY: WASHINGTON  
; STATE: D. C.  
; COUNTRY: U.S.  
; ZIP: 20004  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/378,939  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/952640  
; FILING DATE: 01-DEC-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: ERNST, BARBARA G

RESULT 12  
US-09-027-449-71  
; Sequence 71, Application US/09027449  
; Patent No. 6025158  
; GENERAL INFORMATION:  
; APPLICANT: Gonzalez, Tania R.  
; APPLICANT: Leong, Steven R.  
; APPLICANT: Presta, Leonard G.  
; TITLE OF INVENTION: Antibody Fragment-Polymer Conjugates and  
; TITLE OF INVENTION: Humanized Anti-IL-8 Monoclonal Antibodies  
; NUMBER OF SEQUENCES: 72  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Genentech, Inc.  
; STREET: 1 DNA Way  
; CITY: South San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94080  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS

REGISTRATION NUMBER: 30,377  
REFERENCE/DOCKET NUMBER: 1808-118  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 783-6040  
TELEFAX: (202) 783-6031  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 476 amino acids  
TYPE: amino acid  
TOPOLGY: linear  
MOLECULE TYPE: protein  
US-08-378-939-10

Query Match 57.4%; Score 1427.5; DB 2; Length 476;  
Best Local Similarity 58.2%; Pred. No. 2.5e-105; Mismatches 72; Indels 17; Gaps 4;  
Matches 270; Conservative 72; Mismatches 105; Indels 17; Gaps 4;

QY 1 EVQLQSQSPELVEKGASVYKISCRISRTSAYTFTENTVHWVKQSHGESELINGGINPYGGSF 60  
|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
Db 20 QMVQVQSGAEVKKRGSSTSIVCSRASGGFTSNVYKISWVRQAPQGLEMMGGIPPLEGFTY 79

QY 61 SPFKGKATLTVKSSAYMEIERSLSEDSAVYCAR-----RAGAYYFDYWGQ 111  
|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
Db 80 SQMFOQRGMITADKSTSTAHMELSLRSEDTAVYCATDRYQANFDRARVWFDPWQG 139

QY 112 TLTIVSSASTKGSSVFPLAEEKRKSTGGTAAAGCLVKDPEPFTVWSNQSGALTGVTF 171  
|||:|||:|||:|||:|||:|||:|||:|||:|||:  
Db 140 TLTIVSSASTKGSSVFPLAEEKRKSTGGTAAAGCLVKDPEPFTVWSNQSGALTGVTF 199

QY 172 PALIQ-SGlyTMSSVTPFSTWPSQTVCVHAPASSTTVDKKLEPSPGPISTINCPCC 230  
|||:|||:|||:|||:|||:|||:|||:|||:|||:  
Db 200 PAVLQLOSSLYLSSVWVTPSSGLQTQVTCVNHKPSNKTVKVKVEDKSCKT-HICP- 257

QY 231 KECHKCPAPNLEGGPSVTFPPNIKVLISLTPKTVVWVVDSEDDPVQISWFWVNNE 290  
|||:|||:|||:|||:|||:|||:|||:|||:  
Db 258 ---CPAPEFLGGPSVFLPPKPDLMISRTPETVCCVVDHSDEPEVKFWYVGVE 312

QY 291 VHTAQTOHREDYNSTIRVSTUPLIQHQDWMSKEFKCKVNNKDLSPERTISKIGLV 350  
|||:|||:|||:|||:|||:|||:|||:  
Db 313 VHNAKTKRREEQNTSYRVSVSLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKQ 372

QY 351 RAPOVYIAPPABEQLRSKDVSLTCLVUVGFNPQDISVWTSGTNGHTEENYKDTAPVLDSDGS 410  
|||:|||:|||:|||:|||:|||:|||:  
Db 373 REPVQVYIAPPBREKLTKNQVSLLTCLVKGFFYPSIAVENESQOPENNYKTPVLDSDGS 432

QY 411 YFIYKSKLNKMTSKWEKTSDFSCNRHEGLKNYLUKKTTSRSRPGK 454  
|||:|||:|||:|||:|||:|||:  
Db 433 FFLYSLKLTVDKSRWQGQNVFSCVMHEALHNHYTOKSLSLSGK 476





Tue Jun 19 08:18:16 2001

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Page 10

QY 175 IQ-SGLYTMSSTVVSSTWDSQTWTCVAHPSASTVDKKLEPSSGPISTINPCPPCKEC 233  
Db 181 LQSSGLYSLSVSVTIVSNSNFGTQTYTCNVDKPSNTKVDKIVE-----RKC-CVEC 230  
QY 234 HRCPAARNLEGPSVVFIPPNTRKDVIMISLTKVTCVYWDYSEDDPVOISWFVNLYEVHT 293  
Db 231 PPCPAPPV-AGPSVFLPPKPKDTMISRTPEVTCVVDVSHDEPEQFNWYDCEMEVN 289  
QY 294 AQTQTHREDYNTIRVYSTIPTIQHQDMMSGKEFKCKVNNKOLSPERTISKIGLVRAP 353  
Db 290 AKTPRBEQNSTFRVSVLTVHQDWLNGEKEYCKVNSKOLPAPTEKTISKTKQPREP 349  
QY 354 QWYLPPPAEQLSRKDVSLTCLVGGNPQDISVWTSNGHTEENKOTAPVLDSDGSYFI 413  
Db 350 QVYTLLPSREMTKQVSYLCLVKGPGPSDIAVEMESNGQFENNYTTPMLDSGSFFL 409  
QY 414 YSKLNMKTSKWEKTDSFSNCNRHEGLKNNYVILKTTSRSPKG 454  
Db 410 YSKLTVDKSRM0QGVFSCSYVMHEALHNHTOKSISLSPKG 450

Search completed: June 18, 2001, 15:31:03  
Job time: 96 sec